

LOG NO: 1118	RD.
ACTION: 33 pp.	
FILE NO: 87-761-16569	

7/88

EXPLORATION REPORT
on the
PAVEY PROPERTY

Bennett Lake Area
Atlin Mining Division

**GEOLOGICAL BRANCH
ASSESSMENT REPORT**

16,569

FILMED

EXPLORATION REPORT

on the

PAVEY PROPERTY

(PAVEY 1-6 Claims)

Bennett Lake Area

Atlin Mining Division

NTS 104-M-15W

Lat. $59^{\circ}50'N$, Long. $134^{\circ}48'W$
55'42" 53'36"

For:

LODE STAR EXPLORATION INC.

Suite 19, 4078 Fourth Avenue

Whitehorse, Y.T. Y1A 4K8

*Operator(s): Harjay Exploration Co. Ltd.
G. Davidson*

By:

Owner: G. S. DAVIDSON, P.Geol.

October 1987

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INTRODUCTION

The PAVEY 1-6 claims (80 units) cover gold and silver bearing, sulphide rich (Pb-Zn-Sb-As) quartz veins and shear zones occurring in felsic volcanic and porphyritic rocks of the Mount Nansen Group(?) and/or Lewes River Group. The claims also cover a reported ruby silver occurrence investigated by a 300 m adit ("South adit") in 1915-1916.

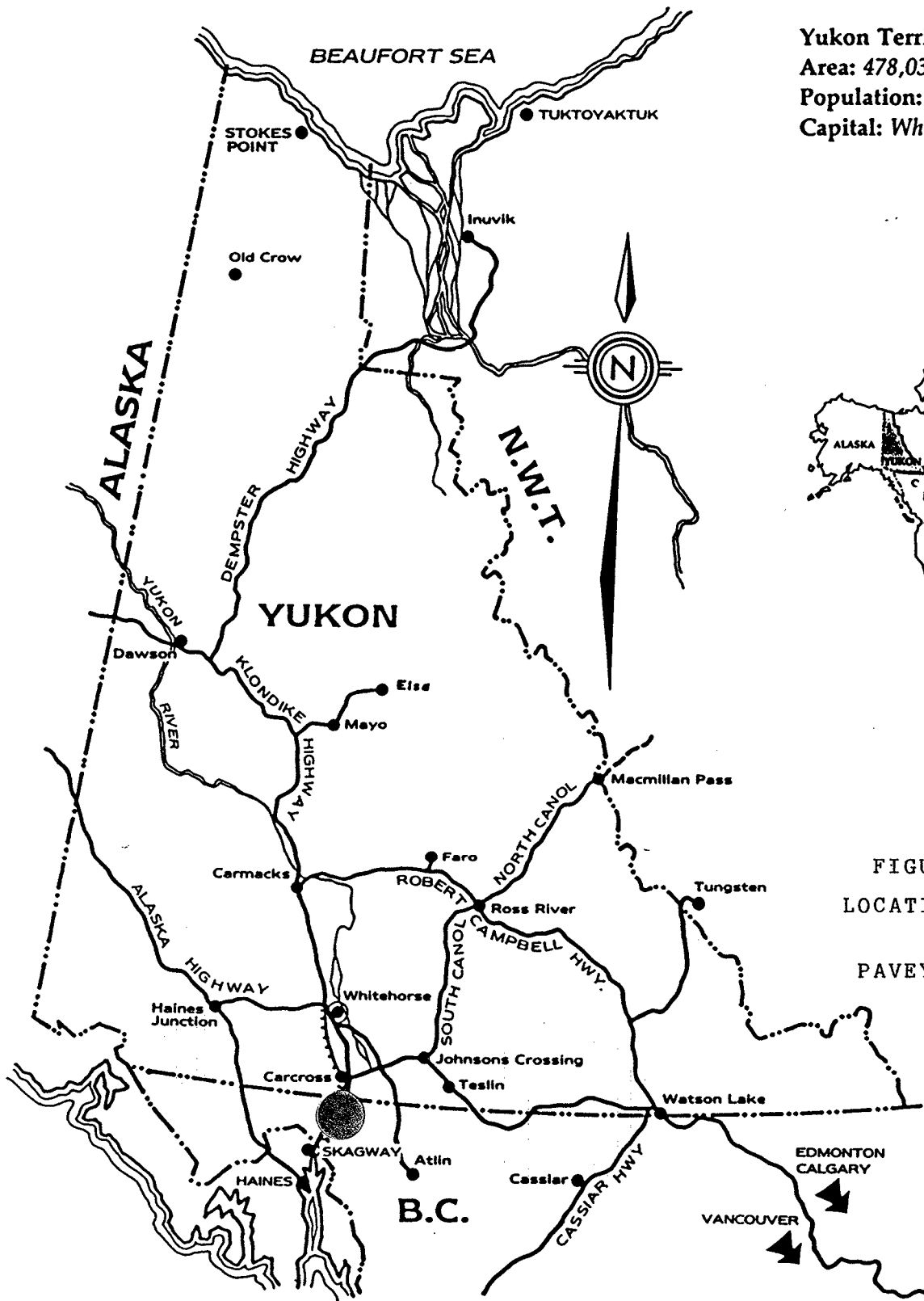
The area of the PAVEY property was previously staked by Du Pont of Canada. They identified numerous mineralized quartz veins and strong soil geochemical anomalies in a steep rocky gully at the north central section of the property. The ruby silver showing located at the southern end of the claim group was not explored by recent workers.

G. Harris and G. Davidson of Whitehorse, Yukon, staked the PAVEY 1-6 claims in 1986 after they lapsed from Du Pont's possession. This report describes the results of an initial exploration program conducted from July 10 to 23, 1987. The program consisted of prospecting, rock sampling, reconnaissance level geological mapping and limited blast and hand trenching. The writer supervised the exploration work on the PAVEY property and has worked in the Wheaton River/Bennett Lake District since 1984.

Lode Star Exploration Inc. of Whitehorse has entered into an option agreement whereby they can earn a 100% interest in the property.

LOCATION AND ACCESS

The PAVEY claims are located in northwestern British Columbia, 28 km south of Carcross and 60 km south of Whitehorse, the principal centre in the area. The claims lie on the east side of Bennett Lake, with the White Pass & Yukon rail route passing through the western edge of the property. The Skagway road, beside Tutshi Lake, is 4 km east of the claims. The property location is shown in Figures 1 and 2.



Yukon Territory
 Area: 478,034 sq. km.
 Population: 25,000
 Capital: Whitehorse

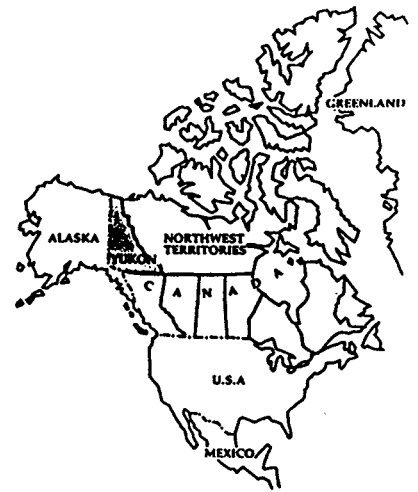


FIGURE 1
 LOCATION MAP

PAVEY CLAIMS

PHYSIOGRAPHY, VEGETATION AND CLIMATE

The claims lie between 660 and 1850 metres, covering a steep precipitous slope beside Bennett Lake and a broad upland plateau. Buckbrush and spruce trees are present below 1000 metres, while alpine grasses are prevalent on the upland area.

Outcrop is restricted to steep slopes and gullies.

The gold and silver bearing veins and shears discovered by Du Pont outcrop in a steep-sided gully below the upland area. Geochemical anomalies extend from this gully onto the upland surface.

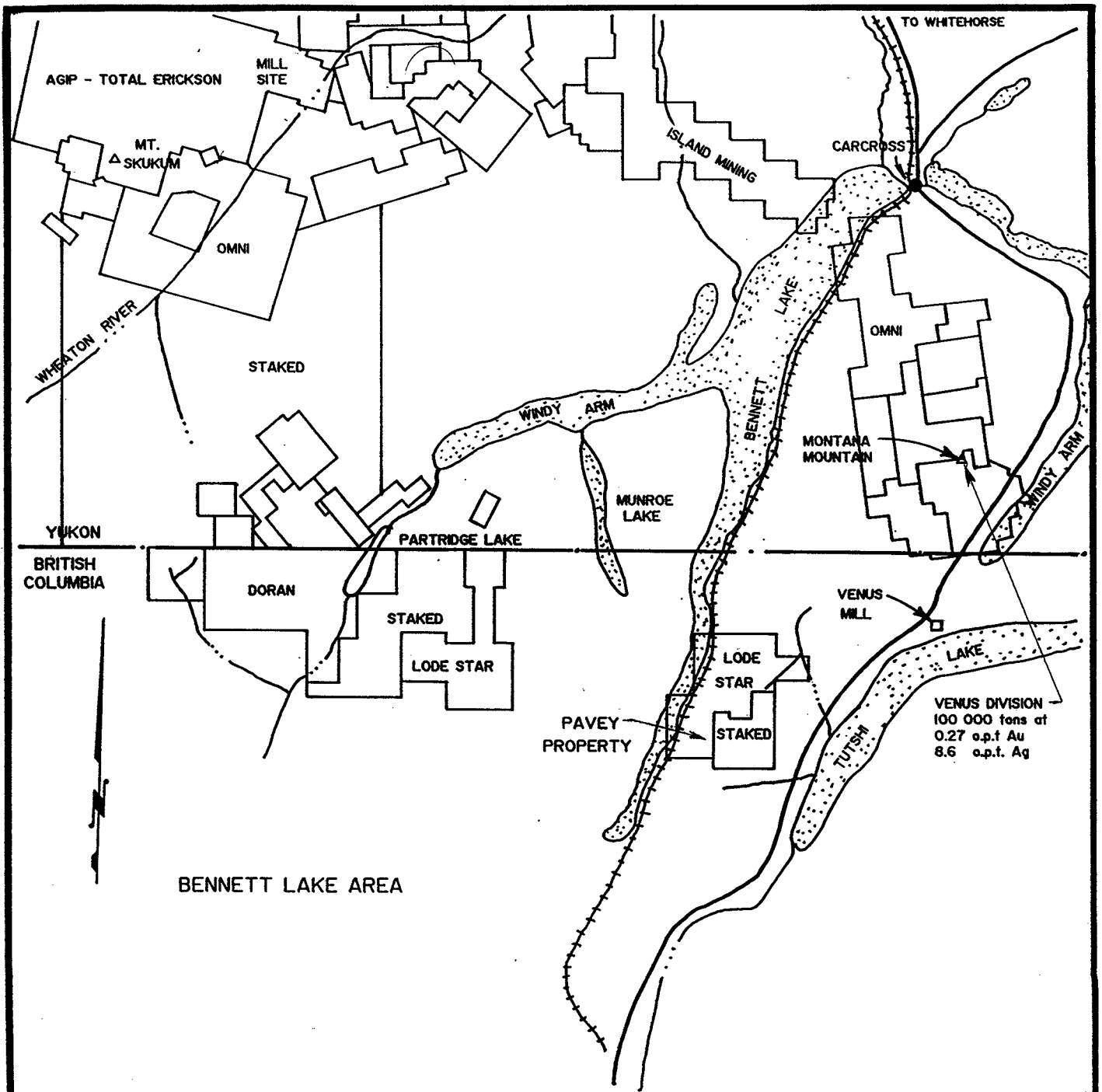
PROPERTY

The PAVEY property consists of six claims, registered with the District Gold Commissioner in Atlin, B.C., as follows:

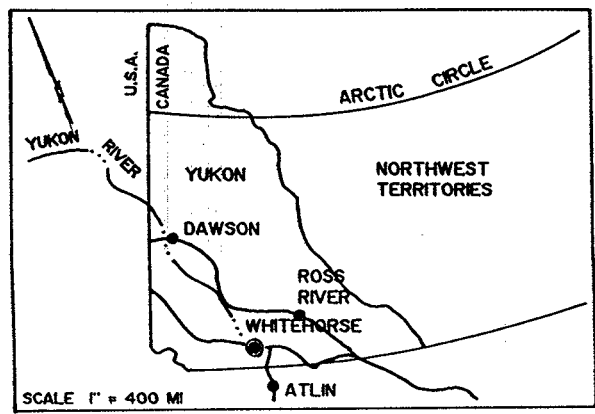
<u>Claim Name</u>	<u>Number of Units</u>	<u>Record Number</u>	<u>Expiry Date*</u>
PAVEY 1	20	2659 (8)	August 1, 1989
PAVEY 2	10	2660 (8)	August 1, 1989
PAVEY 3	20	2661 (8)	August 1, 1989
PAVEY 4	6	2662 (8)	August 1, 1989
PAVEY 5	12	2759 (11)	November 7, 1989
PAVEY 6	12	2760 (11)	November 7, 1989

* (expiry date applied for)

G. Harris of Whitehorse, Y.T. is the registered owner of PAVEY 1-4 and G. Davidson of Whitehorse, Y.T. is the registered owner of the PAVEY 5-6 claims. The claim plan is shown in Figure 3.



BENNETT LAKE AREA



LODE STAR EXPLORATION INC.		
PAVEY PROPERTY		
BENNETT LAKE DISTRICT		
NTS :	TECH. :	DATE :
104 M	G.D.	OCT. '87
SCALE :	DRAFTING :	FIGURE :
	B.B.	2

REGIONAL GEOLOGY

The Bennett Lake district overlies the contact between two terranes: (1) the Intermontane Belt of the western Cordillera and (2) the younger volcanic and intrusive suite of the Coast Intrusions.

The Intermontane Belt features a complex assemblage of deformed volcanic and sedimentary rocks consisting of the Upper Triassic/Lower Jurassic Lewes River Group (Takla-Nicola), the Lower and Middle Jurassic Laberge Group (Stuhini Formation) and Proterozoic metamorphic rocks.

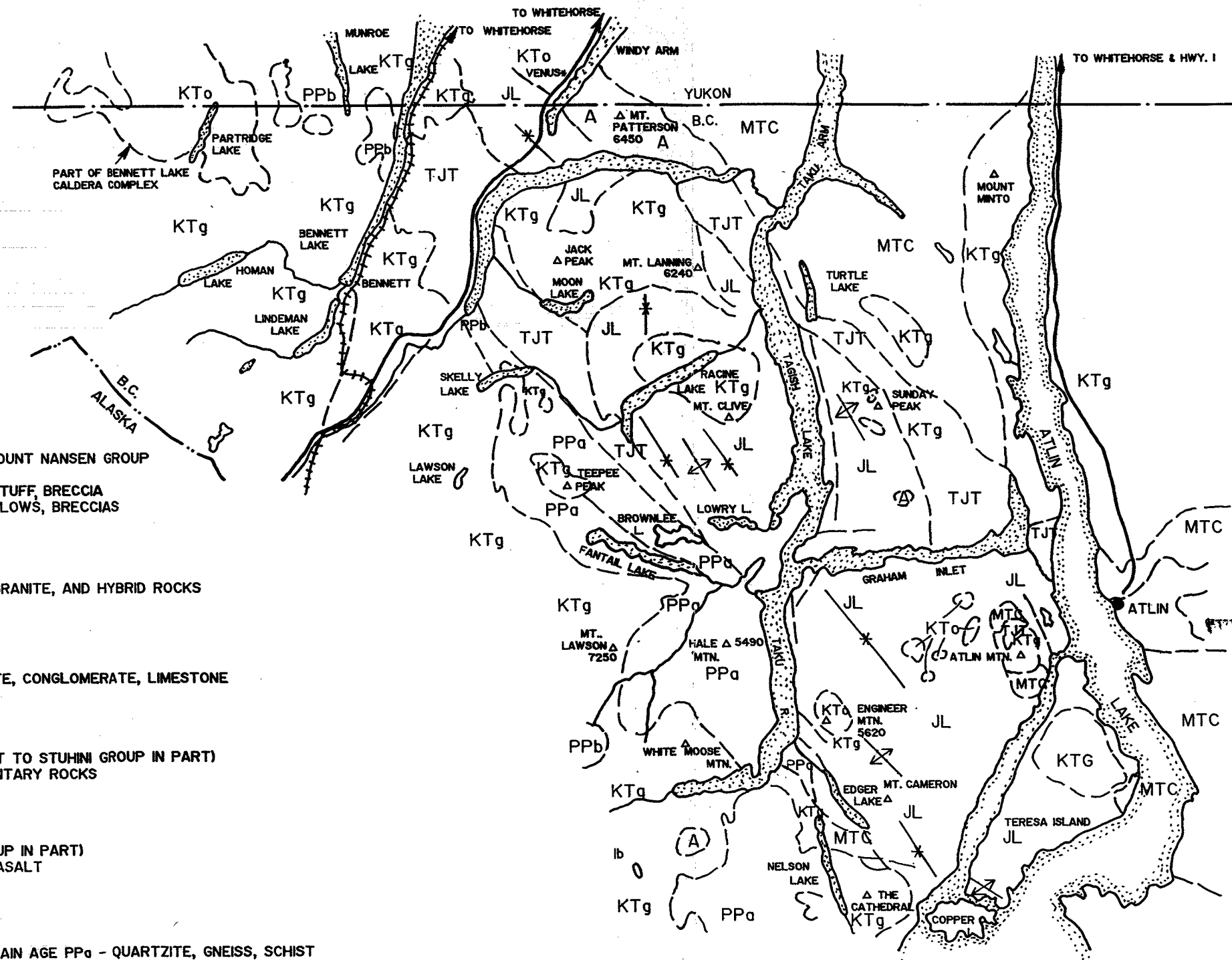
Cretaceous granitic rocks of the Coast Intrusions are the most common in the district; typically, they consist of fresh quartz monzonite or quartz diorite. Remnants of Proterozoic gneiss, schist and limestone occur in the granitic intrusives.

A younger series of andesite, dacite and rhyolite flows, tuffs and agglomerates, mapped as the Late Cretaceous-Tertiary Mount Skukum Group (Mount Nansen Group-Sloko Group) intrude and overlie granitic rocks at Mount Skukum and Mount Macauley. Also, dykes of Tertiary and Eocene age intrude all rocks in the district.

The geology of the Bennett Lake district was mapped by R. L. Christie of the G.S.C. (published in Map No. 19-1957) and is presented in Figure 4 of this report.

Structurally, the area features major faults, primarily along river and lake valleys associated with movement in the Coast Intrusive Complex and with early Tertiary volcanism at Mount Skukum, Mount Macauley and Montana Mountain. The Skukum Group volcanic rocks may be equivalent to the Sloko Group of northern B.C. and the Mount Nansen Group of central Yukon. Late stage features of Skukum Group volcanism include dacite, rhyolite and granitic dykes, emplaced in fractures and fault zones around the volcanic complexes, and quartz or quartz carbonate veining with significant precious and base metal mineralization.

In the Bennett Lake/Wheaton River district, exploration has intensified over the last five years. The Mount Skukum mine, operated by Total Erickson, is now in full production and advanced exploration programs are underway at the Omni Resources' Skukum Gold property and Shaktak Exploration's Mount Vesuvius property.



LEGEND :

CRETACEOUS OR LATER

KT_o HUTSHI GROUP (EQUIVALENT TO MOUNT NANSEN GROUP IN PART)
TRACHYTE, FELSITE, FELDSPATHIC TUFF, BRECCIA
SHYOLITE, TRACHYTE, ANDESITE FLOWS, BRECCIAS

POST LOWER JURASSIC

KT_g COAST INTRUSIONS IN PART
GRANODIORITE, QUARTZ DIORITE, GRANITE, AND HYBRID ROCKS

LOWER JURASSIC AND LATER

JL LABERGE GROUP
GREYWACKE, SILTSTONE, ARGILLITE, CONGLOMERATE, LIMESTONE

PENNSYLVANIAN TO TRIASSIC

TJT LEWES RIVER GROUP (EQUIVALENT TO STUHINI GROUP IN PART)
UNDIVIDED VOLCANIC AND SEDIMENTARY ROCKS

MIDDLE AND UPPER PERMIAN

MTC CACHE CREEK GROUP (ITAKU GROUP IN PART)
LIMESTONE= CHERT, ANDESITE, BASALT

PRE-PERMIAN

PP YUKON GROUP
METAMORPHIC ROCKS OF UNCERTAIN AGE
PP_a - QUARTZITE, GNEISS, SCHIST
PP_b - CHLORITE SCHIST, AMPHIBOLE GNEISS

A UNDIFFERENTIATED VOLCANIC ROCKS OF UNCERTAIN AGE

**GEOLOGICAL BRANCH
ASSESSMENT REPORT**

16,569

LODE STAR EXPLORATION INC.

PAVEY PROPERTY
REGIONAL GEOLOGY

: After T.G. Schroeter, Paper 1986 - 1

NTS : 104 M	TECH. : G.D.	DATE : OCT.'87
SCALE :	DRAFTING : B.B.	FIGURE : 4

On Tagish Lake, the Venus Mine owned by United Keno Hill Mines contains reserves of 100,000 tons grading 0.27 opt Au and 8.6 opt Ag. The mineralization on these properties and others in the district was deposited during Late Cretaceous, Tertiary or younger epithermal and mesothermal activity associated with Skukum Group volcanism. (See Table I for table of formations)

EXPLORATION AND HISTORY

The Bennett Lake district was first explored by prospectors travelling along the major lakes and rivers in the 1890's. By 1898, numerous small quartz veins had been located on the mountainsides overlooking Bennett Lake. Near Pavey, B.C., on the PAVEY #2 claim, several silver occurrences at approximately 4500' elevation were staked as the SILVER QUEEN and RUBY SILVER properties about 1913 by Fred H. Storey. These claims received considerable development, with excavation of a 300 metre adit served by a 1.2 km long tramway. No records of production exist and, from the appearance of the adit, ore was not intersected.

On the PAVEY #3 claim, several short adits investigate mineralized quartz veins. The history of these adits is unknown.

Recent exploration (1982-1983) conducted by Du Pont of Canada (GAUG claims) examined gold-silver bearing quartz veins located in a steep rocky gully which descends from an upland plateau to the east shore of Bennett Lake. Du Pont collected 30 rock samples and reported gold values up to 0.805 opt and silver values up to 63 opt. Au-Ag-Cu-Pb-Zn-Hg-As-Sb soil geochemistry outlined strong anomalies in the gully and on the surrounding upland surface. Peak gold and silver values in soil are 4900 ppb and 86 ppm respectively. Du Pont withdrew from northern exploration in the mid-1980's, allowing this claim group and many others to lapse.

TABLE I

TABLE OF FORMATIONS

LATE CRETACEOUS - EARLY TERTIARY

Mount Nansen Group

Rhyolite, dacite, andesite flows, breccias and tuff

CRETACEOUS

Coast Range Intrusives

Granodiorite, quartz diorite, granite

LOWER JURASSIC

Laberge Group

Greywacke, siltstone, argillite, conglomerate, limestone

PENNSYLVANIAN TO TRIASSIC

Lewes River Group

Undivided volcanic and sedimentary rocks

PROTEROZOIC

Yukon Troup

Metamorphic rocks of uncertain age, quartzite, gneiss, schist

1987 EXPLORATION PROGRAM

Introduction

On July 10, 1987 a four-man field crew mobilized onto the PAVEY property, locating camp just east of the PAVEY #6 claim. Crowsnest Helicopters, based in Whitehorse, provided air support.

A 1.75 km picket baseline trending north/south was established on the upland plateau with the BL 0+00 south picket located at the old legal cornerpost of Du Pont's GAUG 1 and 2 claims. 3.4 km of picket crosslines were extended primarily to the west of the baseline to tie in claim posts, old pits and quartz veins. The "main gully" where Du Pont located numerous mineralized veins and geochemical anomalies was also tied into the grid. The grid plan is shown in Figure 5.

Blast and hand pits were excavated on quartz-sulphide veins in the main gully and beside a small tarn at the south end of the grid (PAVEY #4 claim). A Cobra gasoline drill was utilized for trenching.

Property Geology

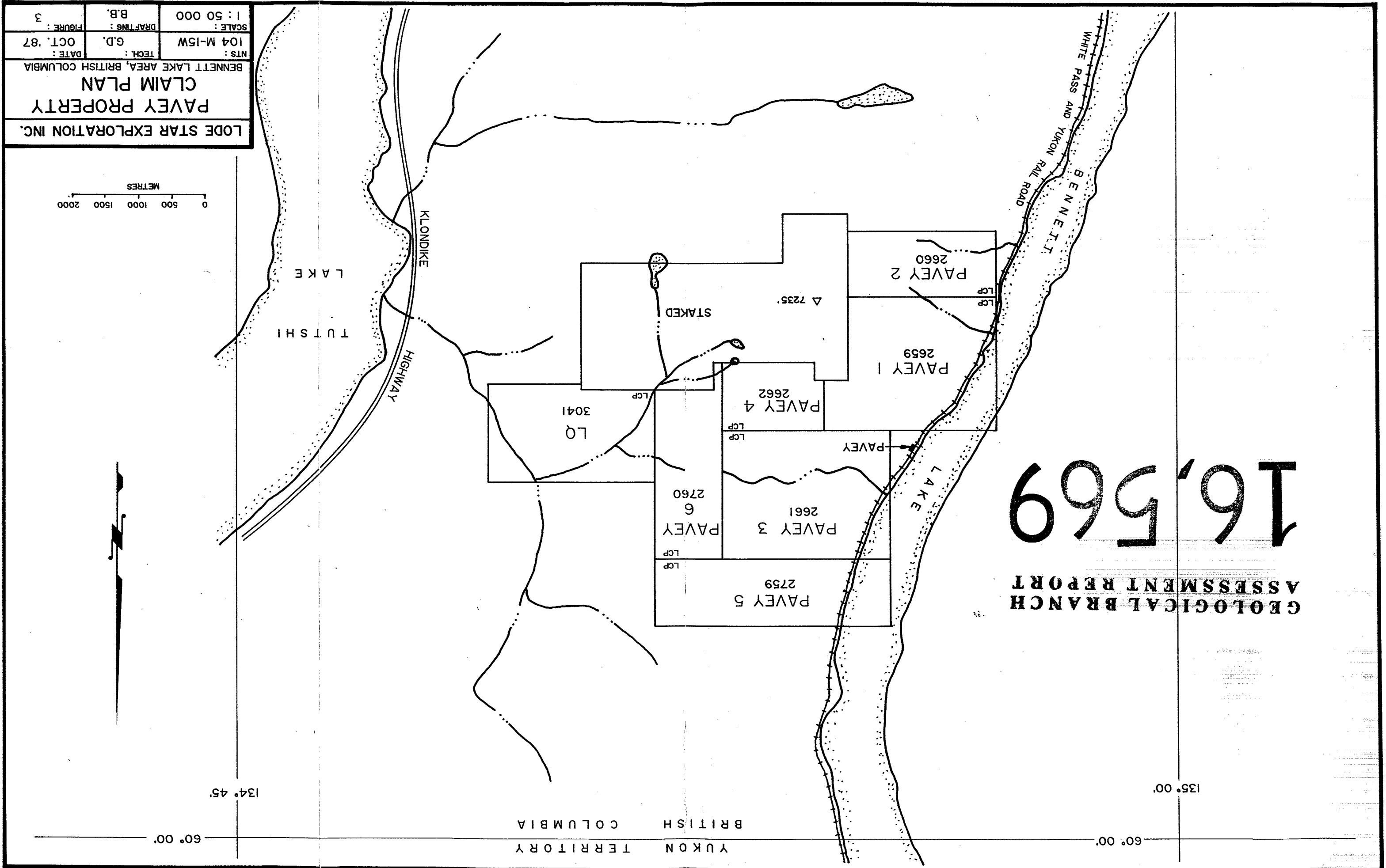
On the PAVEY claims, most of the bedrock is exposed on the westerly facing slope above Bennett Lake. The east and central sections of the property feature a till covered upland plateau with poor rock exposure. Figure 6 shows the preliminary property geology.

The oldest rocks consist of a fault bounded block of quartz-chlorite schist and gneiss of the Yukon Group. These rocks outcrop around a narrow creek gully at the south end of PAVEY #4 and #6 claims. Younger volcanic and sedimentary rocks of the Lewes River Group surround the Yukon Group. The Lewes River sedimentary rocks consist of often gossanous argillites and greywackes which outcrop over an extensive area on the precipitous slope overlooking Bennett Lake. The volcanic strata of the Lewes River Group consist of intermediate to mafic flows which cover the northern part of the claim block and probably outcrop south of the main gully.

Most of the volcanic rocks around the main gully are relatively fresh and closely resemble andesite, dacite and rhyolite porphyries found at Montana Mountain and Mount Macauley. They are mapped as Mount Nansen Group. Quartz-eye rhyolite porphyry dykes and sills host most of the mineralized quartz veins on the property.

16,569

GEOLOGICAL BRANCH ASSESSMENT REPORT



YUKON TERRITORY
BRITISH COLUMBIA

60° 00' 135° 00' 60° 45' 134° 45'

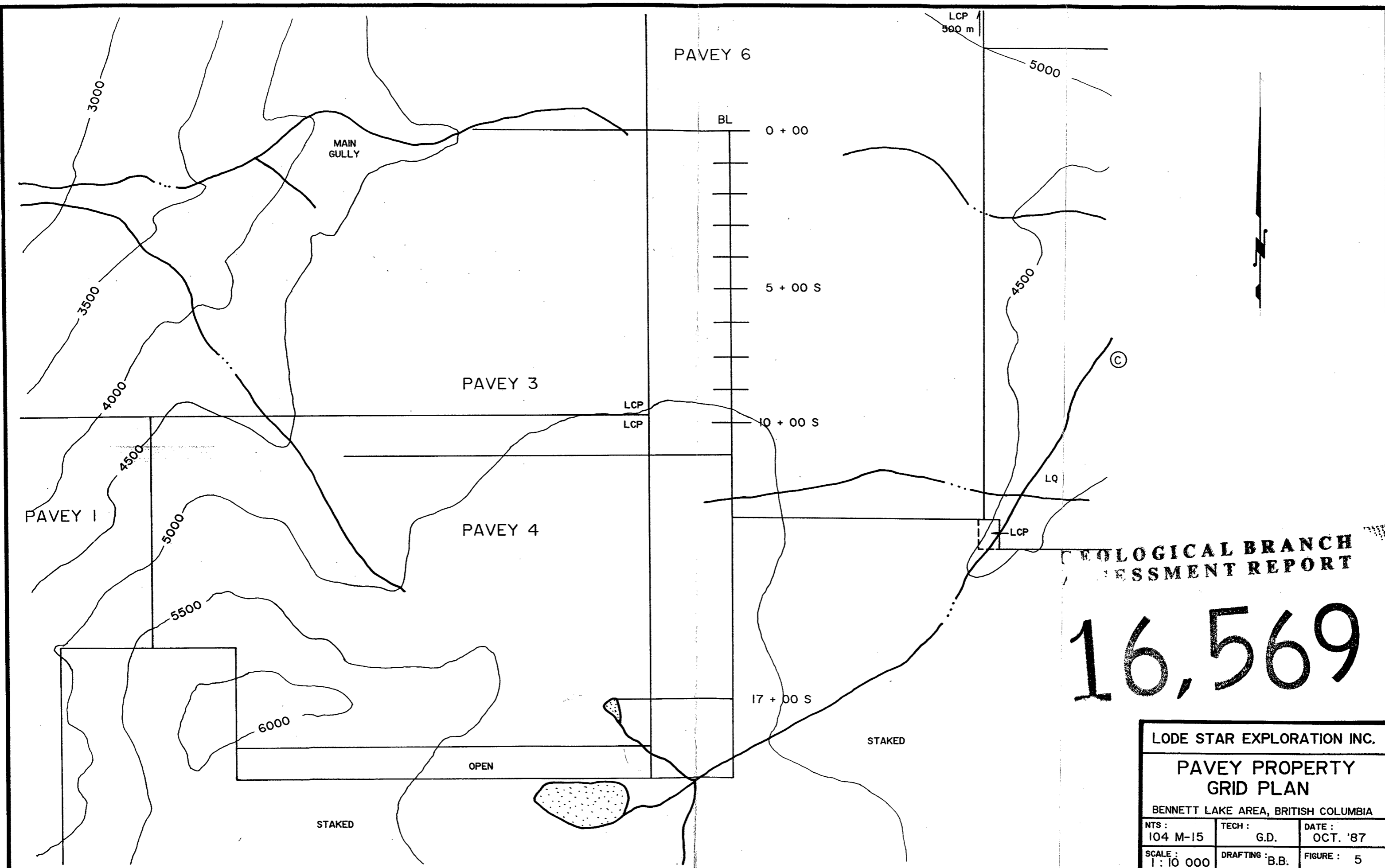
LODE STAR EXPLORATION INC.

CLAIM PLAN
PAVEY PROPERTY

BENNETT LAKE AREA, BRITISH COLUMBIA

NTS:	TECH:	DATE:
104 M-15W	G.D.	OCT. '87
SCALE:	DRAFTING:	FIGURE:
1 : 50 000	B.B.	3

INTEGRAPHICS LTD.



GEOLOGICAL BRANCH
ASSESSMENT REPORT

16,569

LODE STAR EXPLORATION INC.		
PAVEY PROPERTY GRID PLAN		
BENNETT LAKE AREA, BRITISH COLUMBIA		
NTS: 104 M-15	TECH: G.D.	DATE: OCT. '87
SCALE: 1:10 000	DRAFTING: B.B.	FIGURE: 5

Granitic rocks of the Coast Range Intrusives form prominent cliffs along the westerly facing slope above Bennett Lake at the south and north ends of the property. The intrusives consist of fresh granodiorite and quartz diorite.

Structurally northwest trending lineations were identified on a remote sensing image prepared for the area. A linear of moderate intensity appears to transect the upland plateau, possibly outlining a fault contact between rocks of the Lewes River and Yukon Groups.

Prospecting and Rock Sampling

Thirty rock samples were collected on prospecting and reconnaissance mapping traverses. The samples were first geochemically analyzed for 17 elements by Bondar-Clegg. Samples with high values in Au-Ag-Pb-Zn were then assayed. The Certificates of Analysis are presented in Appendix I. Sample values, locations and descriptions are summarized in Table II, and Figures 6, 7 and 8 show the sample sites.

Strong precious and base metal values are present in quartz veins and shear zones on the property. Peak values for gold are 1.4 oz/ton, and for silver 40.1 oz/ton. Four areas sampled in the exploration program returned significant gold and/or silver values.

Mineralized quartz veins are of two types:

- 1) Quartz-arsenopyrite veins contain bands of massive arsenopyrite with minor pyrite, galena and sphalerite. They occur in quartz-eye rhyolite porphyry in the main gully and 500 m above the south adit. Sample #34512, taken above the south adit of a quartz-arsenopyrite vein in a 4 m wide quartz-eye rhyolite porphyry dyke, returned a gold value of 0.433 opt. In the main gully, a similar sample (#34518) obtained a gold value of 0.088 opt. Sample 34518 was taken from a highly fractured gossan zone containing numerous narrow quartz-arsenopyrite-limonite-veins.

The LQ quartz vein located near the southeast corner of PAVEY #6 claim contains approximately 20% massive arsenopyrite and 2% galena. The 1.5 m wide vein outcrops in quartz chlorite schist in the creek bed. Sample #17895 (150 cm chip) returned a gold value of 0.084 opt and a silver value of 10.44 opt.

TABLE II: ROCK SAMPLE VALUES, DESCRIPTIONS AND LOCATIONS

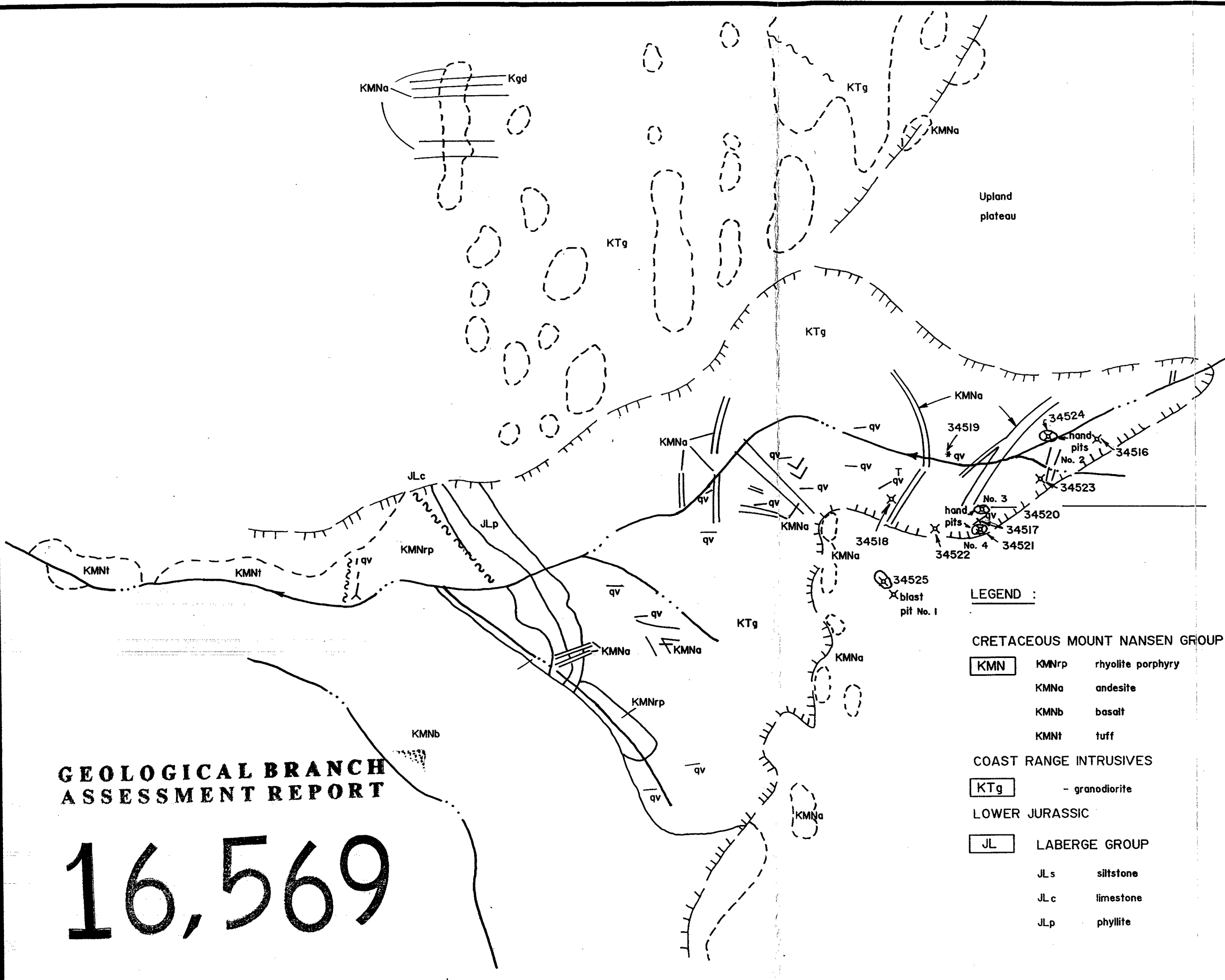
Sample Number	Sample Type	Location	Description	Au (ppb)	Ag (ppm)	Cu (ppm)	Pb (ppm)	Zn (ppm)	As (ppm)	Sb (ppm)	Ba (ppm)	Mn (ppm)
17891	70 cm chip	PAVEY #4 claim, sample from blast pit	Quartz veins in quartz porphyry, massive galena, stibnite, sphalerite and arsenopyrite	30	>50	28	>10,000	14,804	>2,000	>20,000	282	987
17892	grab	" "	Massive sphalerite and stibnite	55	>50	103	4,032	>20,000	67	>20,000	<15	8277
17893	100 cm chip	PAVEY #4 claim, second blast pit	Quartz vein and quartz porphyry, arsenopyrite	85	29.6	43	5,868	4,807	>2,000	293	776	337
17894	50 cm chip	PAVEY #4 claim, blast pit	Narrow quartz veins in cherty meta-sedimentary rock, pyrite, arsenopyrite	35	8.1	157	1,398	306	1,697	1,043	880	578
17895	150 cm chip	LQ claim	Massive quartz vein, arsenopyrite, galena	5,900	>50	614	8,582	3,207	>2,000	3,385	<15	44
34501	grab	PAVEY #2 claim, ridge above the main adit	Quartz vein in granitic rocks, up to 5% arsenopyrite and pyrite	300	7.1	15	293	131	>2,000	367	615	51
34502	grab	" "	Granitic rock containing 10% pyrite	10	4.4	84	220	91	442	52	<15	627
34503	grab	" "	Metasedimentary rock (chert), 5% fine grained disseminated sulphides	130	2.1	36	156	67	>2,000	340	1,170	155
34504	grab	PAVEY #1 claim, 100 m west of previous sample	Subhedral quartz vein, bands of massive arsenopyrite	780	7.4	26	301	91	>2,000	521	<15	15
34505	grab	" "	Silicified metasedimentary rocks, 10% disseminated pyrite and arsenopyrite	75	1.1	30	85	89	>2,000	119	185	505
34506	grab	PAVEY #1 claim, ridge top at 5,700' ASL	Massive platy pyrrhotite from quartz gouge zone in cherts	10	2.8	884	49	39	>2,000	18	<15	153
34507	grab	" "	Quartz gouge vein, 10% arsenopyrite, pyrite	400	6.1	209	256	22	>2,000	668	<15	129
34508	grab	PAVEY #2 claim, ridge top at 5,600' ASL	Quartz vein talus, massive arsenopyrite	1,050	1.0	20	<5	17	>2,000	392	882	114
34509	grab	PAVEY #2 claim, 5,100' ASL	Granitic rock, hornfels, 2% pyrite, pyrrhotite, arsenopyrite	45	0.9	36	86	75	>2,000	25	464	651

TABIE II (cont'd)

Sample Number	Sample Type	Location	Description	Au (ppb)	Ag (ppm)	Cu (ppm)	Pb (ppm)	Zn (ppm)	As (ppm)	Sb (ppm)	Ba (ppm)	Mn (ppm)
34510	grab	PAVEY #2 claim, 5,100' ASL	Metasedimentary rock, dark, fine grained, cherty, disseminated pyrite, arsenopyrite, pyrrhotite	5	1.2	236	78	60	>2,000	25	722	872
34511	grab	PAVEY #2 claim, 4,700' ASL	Buff weathering feldspar porphyry dyke, 4 m wide, narrow vuggy quartz veins	75	3.0	2	106	50	>2,000	40	21	32
34512	grab	PAVEY #1 claim, 5,100' ASL	Quartz vein, bands of arsenopyrite occur in quartz feldspar porphyry dyke 3 m wide	>10,000	11	25	9	12	>2,000	398	60	27
34513	grab	PAVEY #1 claim, 4,400' ASL	Quartz vein, subhedral, 2% pyrite and arsenopyrite, minor chlorite	520	0.6	<1	88	85	>2,000	34	3336	108
34514	grab	PAVEY #4 claim, 600 m west of tarn	Quartz-feldspar porphyry dyke containing minor arsenopyrite	500	<0.5	6	75	8	>2,000	36	920	14
34515	grab	" "	Quartz-feldspar porphyry dyke cut by narrow quartz veins containing arsenopyrite and galena	860	22.4	63	174	1,227	1,004	>20,000	<15	1,604
34516	grab	PAVEY #3, top of main gully	Banded quartz-limonite veins in felsic tuff, minor pyrite, arsenopyrite and galena	>10,000	>50	445	663	1,160	>2,000	>20,000	<15	252
34517	grab	PAVEY #3 claim, main gully, 4,500' ASL	Massive sulphide in quartz vein	40	1.2	40	56	46	302	205	324	1,101
34518	grab	PAVEY #3 claim, main gully, 4,400' ASL	Quartz vein containing arsenopyrite, pyrite, limonite	2,900	0.6	3	47	66	>2,000	531	246	450
34519	grab	" "	Quartz-sulphide vein in porphyritic rock, vuggy, arsenopyrite, pyrite, sphalerite, galena	6,000	>50	299	8,569	19,883	>2,000	>20,000	<15	468
34520	3 m chip	PAVEY #3 claim, main gully, 4,500' ASL	Hand pit in gossan zone, narrow sulphide bearing quartz veins in gossan	800	5.6	8	563	552	>2,000	114	654	2,959

TABLE II (cont'd)

Sample Number	Sample Type	Location	Description	Au (ppb)	Ag (ppm)	Cu (ppm)	Pb (ppm)	Zn (ppm)	As (ppm)	Sb (ppm)	Ba (ppm)	Mn (ppm)
34521	grab	PAVEY #3 claim, main gully, 4,500' ASL	Hand pit, sample of quartz, limonite with minor sulphides	780	2.1	2	110	286	>2,000	516	217	1,399
34522	grab	" "	Quartz-sulphide vein, stibnite	>10,000	>50	594	1,010	1,569	662	>20,000	<15	386
34523	grab	" "	Quartz-sulphide vein, stibnite, galena, arsenopyrite, pyrite	5,400	>50	204	>10,000	1,556	>2,000	20,000	<15	38
34524	grab	" "	Quartz-sulphide vein, stibnite, galena, arsenopyrite	4,300	>50	485	>10,000	5,538	>2,000	20,000	<15	94
34525	grab	PAVEY #3 claim, upland surface	Blast pit, massive stibnite vein in volcanics	2,100	49.2	42	83	165	151	20,000	<15	306



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SAMPLE NUMBER	WIDTH (cm)	Au (oz/ton)	Ag (oz/ton)
34516	grab	1.42	4.64
34517	grab	40 ppb	1.2 ppm
34518	grab	0.088	0.6 ppm
34519	grab	0.176	6.19
34520	grab	800 ppb	5.6 ppm
34521	grab	780 ppb	2.1 ppm
34522	grab	1.442	10.95
34523	grab	0.120	9.89
34524	grab	0.108	12.60
34525	grab	0.785	49.2 ppm

LEGEND :

CRETACEOUS MOUNT NANSEN GROUP

- KMN** KMNr rhyolite porphyry
- KMNa andesite
- KMnb basalt
- KMNI tuff

COAST RANGE INTRUSIVES

- KTg** - granodiorite

LOWER JURASSIC

- JL** LABERGE GROUP
- JLs siltstone
- JLc limestone
- JLp phyllite

SYMBOLS

- Geological Contract
- Outcrop
- Y Adit
- X 34519 Sample location, number
- qv Quartz vein
- Stream
- ||| Bluff

LODE STAR EXPLORATION INC.

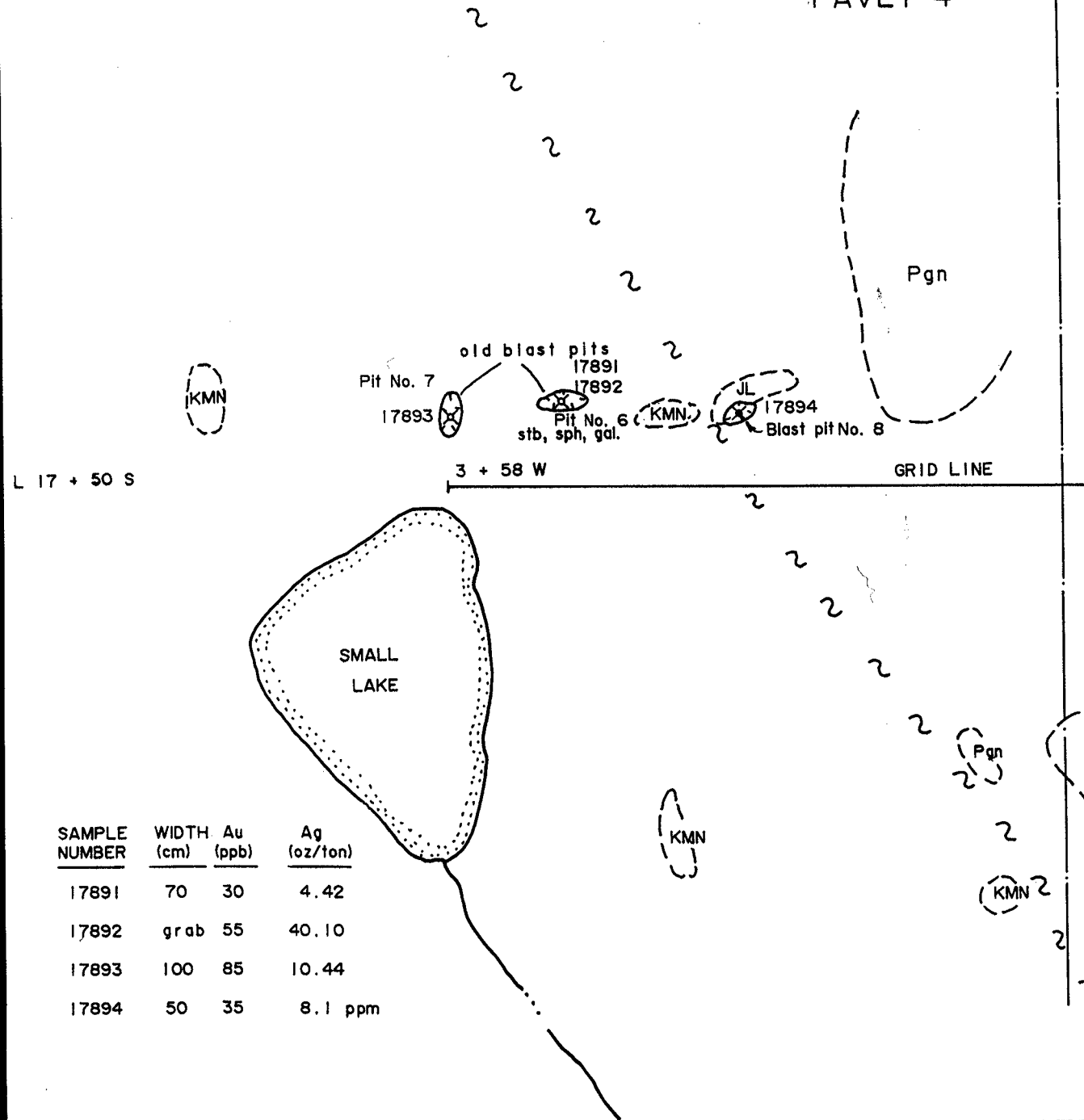
**PAVEY PROPERTY
DETAILED PLAN, MAIN GULLY**

BENNETT LAKE AREA, BRITISH COLUMBIA

NTS : 104 M-15W	TECH : G.D.	DATE : OCT. '87
SCALE : 1 : 5000	DRAFTING : B.B.	FIGURE : 7

PAVEY 4

PAVEY 6



LEGEND :

- CRETACEOUS**
- Mount Nansen Group
- KMN - falsic volcanic feldspar phenocrysts, quartz eyes
- LOWER JURASSIC**
- JL - dark cherts, minor pyrite
- PALEOZOIC**
- Pgn - Biotite quartz gneiss
- ~~~~~ Fault
- Outcrop
- ⊗ Blast pit

L 17 + 50 S

SAMPLE NUMBER	WIDTH (cm)	Au (ppb)	Ag (oz/ton)
17891	70	30	4.42
17892	grab	55	40.10
17893	100	85	10.44
17894	50	35	8.1 ppm

LODE STAR EXPLORATION INC.		
PAVEY PROPERTY DETAILED PLAN		
BENNETT LAKE AREA, BRITISH COLUMBIA		
NTS : 104 M-15W	TECH : G.D.	DATE : OCT. '87
SCALE : 1 : 1000	DRAFTING : B.B.	FIGURE : 8

- 2) Quartz-stibnite veins contain massive bladed stibnite with variable amounts of arsenopyrite and less galena and sphalerite. These veins outcrop in the main gully and near a small tarn at the south end of PAVEY #4 claim. They occur in rhyolite porphyry and sheared granodiorite. In the main gully, two samples (#34516 and 34522) of massive stibnite in quartz contained gold values of 1.4 opt and silver values of 4.6 and 10.9 opt. Figure 7 shows the sample sites on a detailed plan of the main gully.

Near the small tarn, two old blast pits were mucked out and sampled. Massive stibnite with 10% arsenopyrite, sphalerite and galena occurs in a fractured rhyolite porphyry. The sulphide zone is approximately 70 cm wide, with silver values of up to 40.1 opt. The mineralization appears to occupy a northwesterly trending shear zone in the felsic volcanics.

One other type of mineral occurrence was examined at the south end of the property above the south adit. Boulders of massive platy pyrrhotite lie along a contact between argillite and a granitic dyke. The contact zone contains clay gouge, arsenopyrite bearing quartz and the pyrrhotite boulders. Low precious metal values were obtained in rock samples from this area.

The south adit was mapped at a scale of 1:100 - see Figure 9. The adit consists of a 180 m long drift and a 95 m crosscut with several short spurs. The adit was driven in 1915-1916 in a year-round operation to try and intersect a ruby silver ore zone. The workings cut fresh granodiorite for almost their entire length. One rhyolite porphyry dyke occurs at the end of the main drift and in a small spur. Apparently, no mineralization was intersected and the project was abandoned in 1916.

Trenching

Hand and blast pits were excavated at the top of the main gully and near the small tarn on PAVEY #4 claim. Pit locations are shown on the detailed plans - Figures 7 and 8. Table III summarizes the pit dimensions.

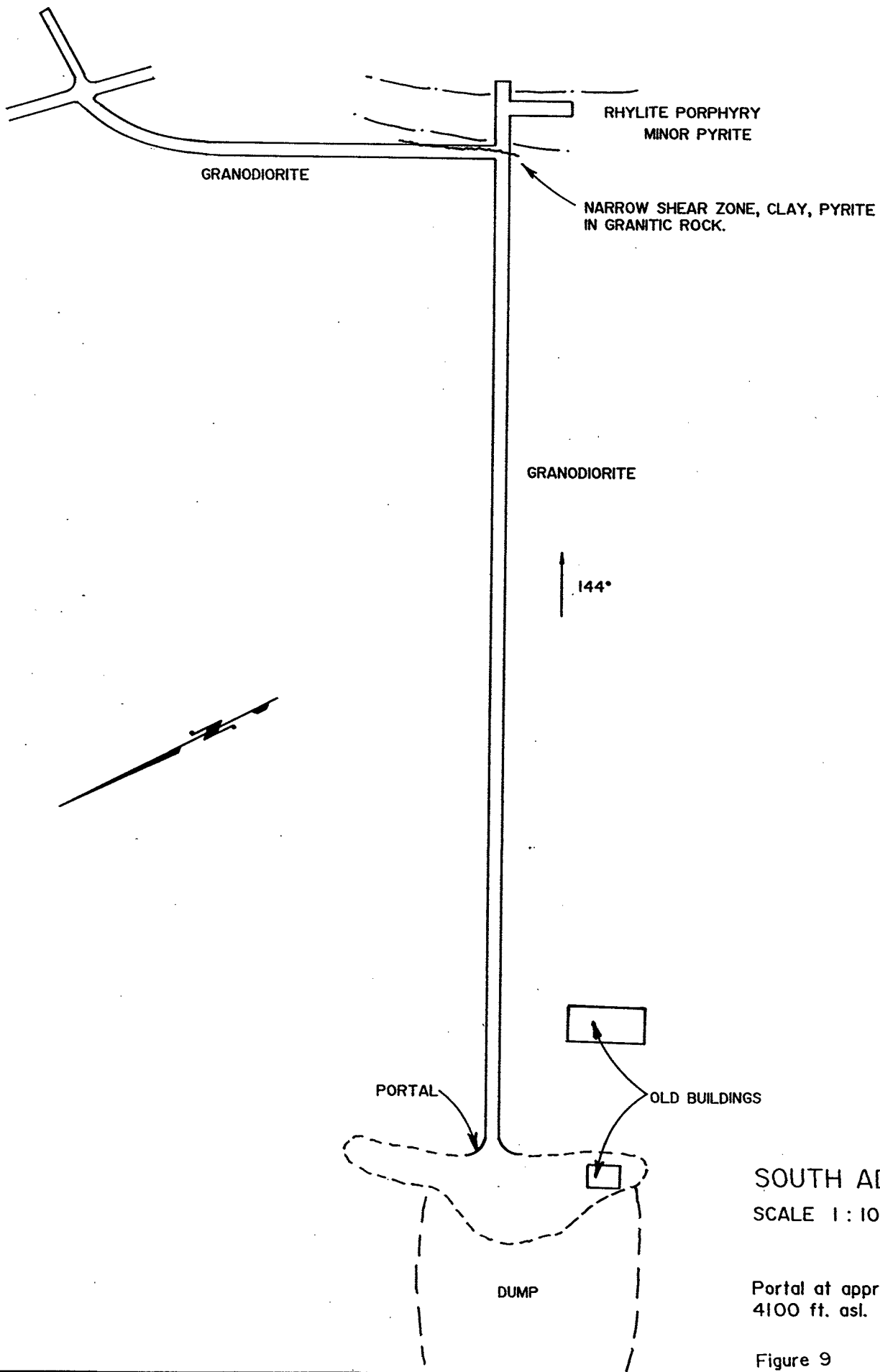


Figure 9

TABLE III
PIT DIMENSIONS

<u>Location</u>	<u>Width</u>	<u>Length</u>	<u>Depth</u>	<u>Volume</u>
Main Gully				
Pit #1	1.0 m	25 m	.75 m	18.75 m ³
Pit #2	1.0 m	2 m	1.0 m	2.00 m ³
Pit #3	1.0 m	3 m	1.0 m	3.00 m ³
Pit #4	1.0 m	2 m	1.5 m	3.00 m ³
Pavey #4, near small tarn				
Pit #6	1.5 m	3 m	2.0 m	9.00 m ³
Pit #7	1.5 m	2 m	1.0 m	3.00 m ³
Pit #8	1.0 m	2 m	1.0 m	2.00 m ³
LQ Vein				
Pit #9	1.0 m	2 m	1.0 m	2.00 m ³
TOTAL VOLUME =				<u><u>42.75 m³</u></u>

DISCUSSION AND RECOMMENDATIONS

Prospecting and rock sampling have located numerous gold and silver bearing quartz-arsenopyrite and quartz-stibnite veins with peak gold values of 1.4 opt and silver values of 40.1 opt. These veins are exposed in rhyolite porphyry dykes and sills and in granodiorite.

The main gully contains mineralized quartz veins through a vertical section of over 400 m. Similar veins located 1.7 km to the south-southeast, beside a small tarn (PAVEY #4 claim), may lie along the same mineralized structure. Geochemical and geophysical surveys should be conducted over the upland plateau to try and locate anomalous trends.

Quartz veins outcropping on the south rim of the main gully should be trenched to better establish grades and widths.

The reported ruby silver occurrence above the south adit has yet to be located. One auriferous quartz arsenopyrite vein has been discovered above the adit at an elevation of 5,100 feet. Contour geochemistry and further prospecting should be employed to rediscover the old showings.

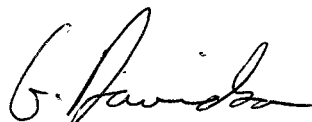
The PAVEY claims lie 5 km west of the Skagway Highway. A natural access route lies along a stream valley trending northeast from the highway. A 4x4 road should be constructed up this valley and onto the upland plateau.

CERTIFICATE

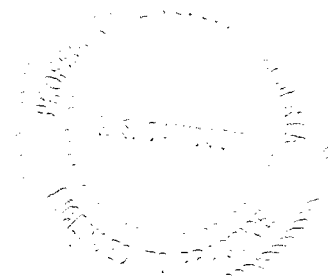
I, GRAHAM DAVIDSON, of the City of Whitehorse in the Yukon Territory, HEREBY CERTIFY:

1. That I am a consulting geologist and that I supervised and participated in the work program described in this report.
2. That I am a graduate of the University of Western Ontario (H.B.Sc., Geology, 1981);
3. That I am registered as a Professional Geologist by the Association of Professional Engineers, Geologists and Geophysicists of Alberta (No. 42308);
4. That I have been engaged in mineral exploration on a full and part time basis for seven years, five of which have been spent in the Yukon and Northwest Territories.

SIGNED at Whitehorse, Yukon, this 23 day of October, 1987:



G. S. DAVIDSON, P.Geol.



REFERENCES

CHRISTIE, R. L. (1957): Map 19-1957, Bennett Area Geology Map. G.S.C.

COPLAND, H. J. (1982): Geological and Geochemical Report on the GAUG Property. Du Pont of Canada.

SCHROETER, T. G. (1986): Bennett Project. B.C. Ministry of Energy, Mines and Petroleum Resources - Paper 1986-1.

STATEMENT OF COSTS
(July 10 - 23, 1987 Work Program)

PERSONNEL

G. Davidson (geologist): 7 days	\$ 1,750.00
B. Harris (prospector/blaster): 6 days	1,500.00
G. Harris (prospector/blaster): 8 days	2,000.00
J. Soots (prospector): 8 days	1,600.00
B. Lueck (geologist): 1 day	250.00

TRANSPORTATION

Jet Ranger helicopter (Crowsnest Air)	3,575.54
4x4 truck: 7 days rental	350.00
Mileage - 800 km	200.00
Gas	150.00
ATC rental: 16 days (2 machines)	640.00

ANALYSES

30 rock samples (Bondar-Clegg)	790.00
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CAMP

Groceries and equipment: 28 mandays @ \$35/day	980.00
Lumber	350.00

OTHER

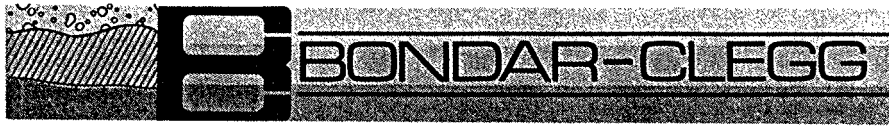
Cobra drill and explosives (Yukon Explosives)	733.66
Geological report - typing/drafting	2,000.00

TOTAL COSTS

\$16,869.20

APPENDIX I

CERTIFICATES OF ANALYSIS

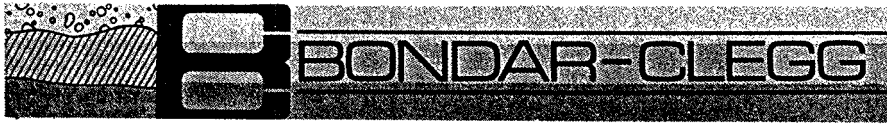


REPORT: 127-5560

PROJECT: PAVEY

PAGE 1A

SAMPLE NUMBER	ELEMENT UNITS	Au PPB	Cu PPM	Pb PPM	Zn PPM	Mo PPM	Co PPM	Ni PPM	Mn PPM	Ag PPM	Bi PPM	Tl PPM
R2 17891		30	28	>10000	14804	8	3	6	987	>50.0	5	1
R2 17892		55	103	4032	>20000	20	6	9	8277	>50.0	16	2
R2 17893		85	43	5868	4807	2	1	3	337	29.6	2	<1
R2 17894		35	157	1398	306	3	17	19	578	8.1	<2	2
R2 17895		5900	614	8582	3207	2	30	10	44	>50.0	508	<1
R2 34501		300	15	293	131	4	6	14	51	7.1	6	<1
R2 34502		10	84	220	91	4	5	21	627	4.4	2	2
R2 34503		130	36	156	67	14	30	33	155	2.1	<2	<1
R2 34504		780	26	301	91	4	2	22	15	7.4	16	<1
R2 34505		75	30	85	89	6	2	9	505	1.1	<2	3
R2 34506		10	884	49	39	<1	<1	43	153	2.8	<2	<1
R2 34507		400	209	256	22	3	6	6	129	6.1	<2	<1
R2 34508		1050	20	<5	17	5	6	11	114	1.0	2	<1
R2 34509		45	36	86	75	4	20	43	651	0.9	<2	3
R2 34510		5	236	78	60	4	11	10	872	1.2	<2	2
R2 34511		75	2	106	50	1	1	6	32	3.0	<2	1
R2 34512		>10000	11	25	9	12	3	5	27	2.4	10	<1
R2 34513		520	<1	88	85	2	3	9	108	0.6	<2	<1
R2 34514		500	6	75	8	2	2	5	14	<0.5	<2	1
R2 34515		860	63	174	1227	1	2	6	1604	22.4	<2	<1
R2 34516		>10000	445	663	1160	1	7	12	252	>50.0	<2	<1
R2 34517		40	40	56	46	3	5	12	1101	1.2	<2	<1
R2 34518		2900	3	47	66	1	6	8	450	0.6	<2	<1
R2 34519		6000	299	8569	19883	4	5	11	468	>50.0	<2	<1
R2 34520		800	8	563	552	1	7	9	2959	5.6	<2	<1
R2 34521		780	2	110	286	1	4	10	1399	2.1	<2	<1
R2 34522		>10000	594	1010	1569	1	7	10	386	>50.0	<2	<1
R2 34523		5400	204	>10000	1556	4	2	9	38	>50.0	<2	<1
R2 34524		4300	485	>10000	5538	4	5	15	94	>50.0	<2	<1
R2 34525		2100	42	83	165	1	3	6	306	49.2	<2	<1



REPORT: 127-5560

PROJECT: PAVEY

PAGE 1B

SAMPLE NUMBER	ELEMENT UNITS	As PPM	W PPM	Ba PPM	Se PPM	Sb PPM	Cr PPM
R2 17891		>2000	<10	282	9	>20000	56
R2 17892		67	96	<15	20	>20000	40
R2 17893		>2000	<10	776	<1	293	70
R2 17894		1697	<10	880	1	1043	58
R2 17895		>2000	<10	<15	10	3385	247
R2 34501		>2000	<10	615	6	367	170
R2 34502		442	<10	<15	5	52	75
R2 34503		>2000	<10	1170	5	340	94
R2 34504		>2000	<10	<15	13	521	361
R2 34505		>2000	<10	185	1	119	58
R2 34506		>2000	<10	<15	6	18	48
R2 34507		>2000	<10	<15	6	668	432
R2 34508		>2000	<10	882	5	392	69
R2 34509		>2000	<10	464	<1	25	119
R2 34510		>2000	<10	722	1	25	51
R2 34511		>2000	<10	21	1	40	159
R2 34512		>2000	<10	60	6	398	250
R2 34513		>2000	<10	3336	3	34	119
R2 34514		>2000	<10	920	1	36	115
R2 34515		1004	<10	<15	1	>20000	77
R2 34516		>2000	<10	<15	<1	>20000	8
R2 34517		302	<10	324	1	205	241
R2 34518		>2000	<10	246	1	531	253
R2 34519		>2000	<10	<15	<1	>20000	101
R2 34520		>2000	<10	654	<1	114	108
R2 34521		>2000	<10	217	3	516	340
R2 34522		662	<10	<15	<1	>20000	<2
R2 34523		>2000	<10	<15	2	>20000	141
R2 34524		>2000	<10	<15	1	>20000	96
R2 34525		151	<10	<15	<1	>20000	<2



REPORT: 627-5560

PROJECT: PAVEY

PAGE 1

SAMPLE NUMBER	ELEMENT UNITS	AU OPT	AG OPT	PB PCT	ZN PCT
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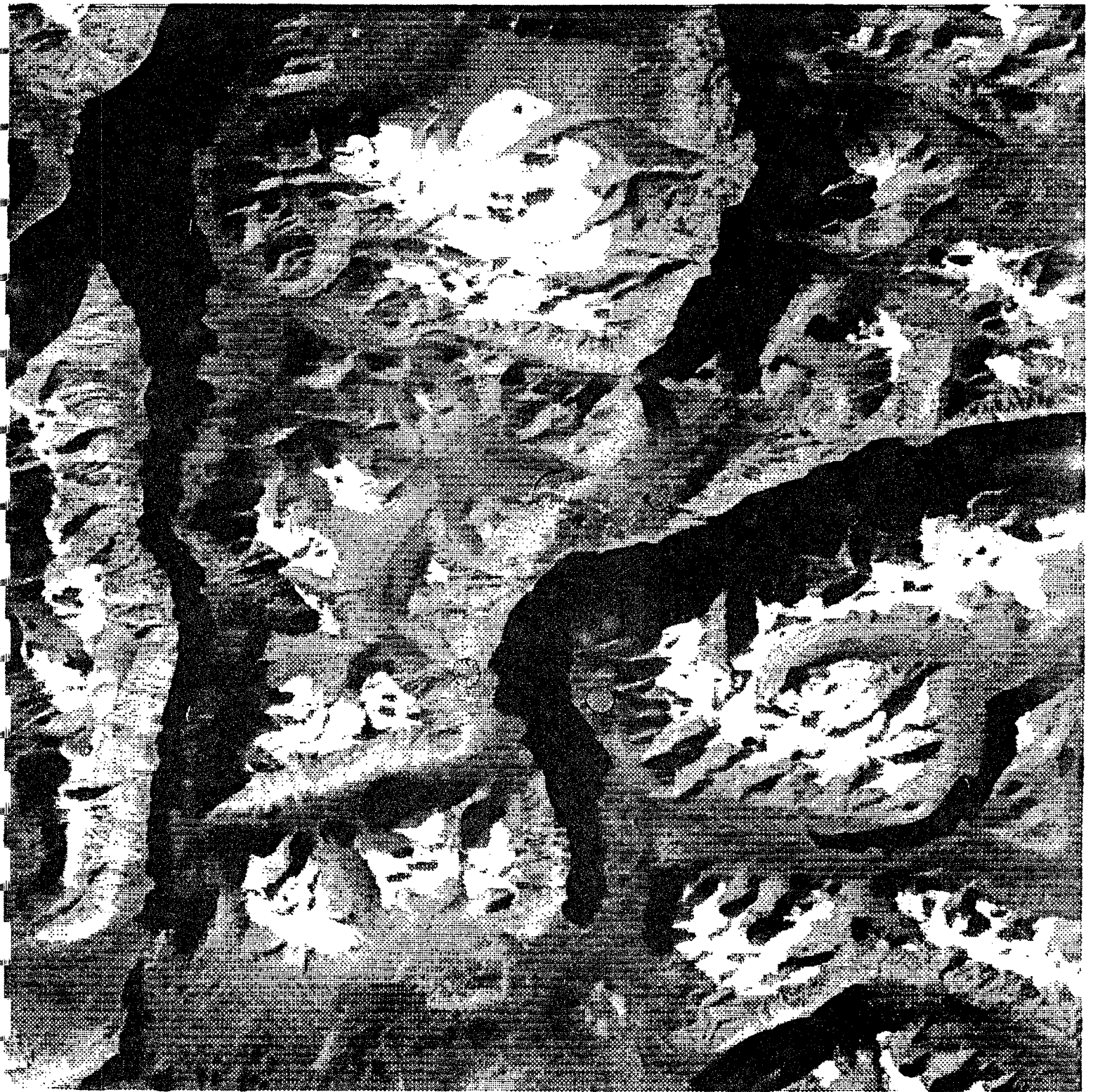
R2 17891			4.42	3.60	
2 17892			40.10		9.88
R2 17895		0.084	10.44		
R2 34508		0.030			
2 34512		0.433			

R2 34516		1.420	4.64		
2 34518		0.088			
2 34519		0.176	6.19		
R2 34522		1.442	10.95		
R2 34523		0.120	9.89	4.80	

R2 34524		0.108	12.60	8.16	
R2 34525		0.785			

APPENDIX II

REMOTE SENSING IMAGE



SCALE 1: 2362 1: 2362 SIZE: 0.5KM, 0.5KM OFFSET: . KM, . KM
FILE: BENNETT2.PIX CREATED: 16-OCT-87 TAPE ID: DATE: 19-OCT-87
RED: VD CHAN: 1
GREEN: VD CHAN: 2
BLUE: VD CHAN: 3

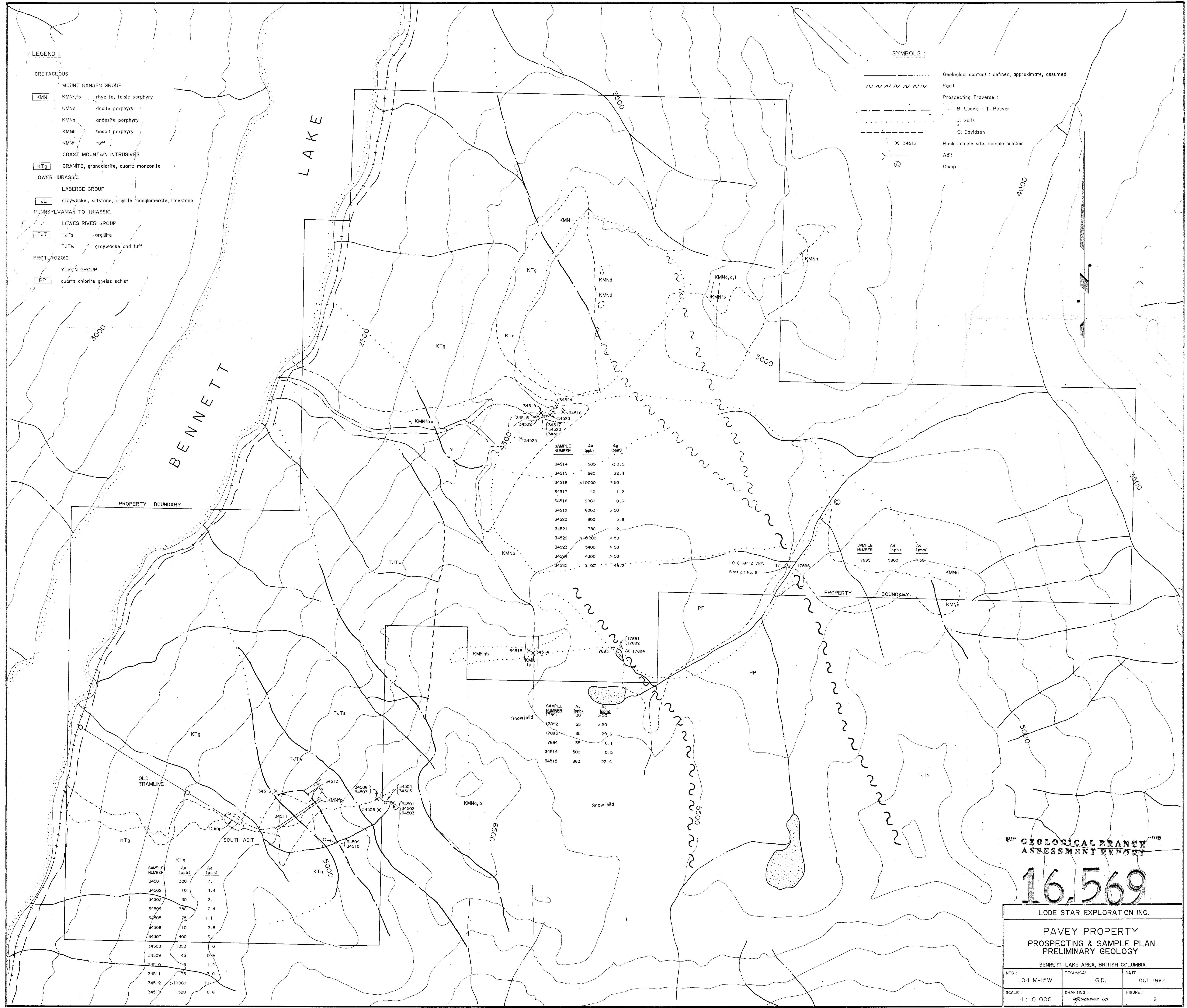
(PAGE)

LEGEND

- CRETACEOUS
- MOUNT NANSEN GROUP
 - KMNfp rhyolite, felsic porphyry
 - KMNd dacite porphyry
 - KMNa andesite porphyry
 - KMNb basalt porphyry
 - KMNt tuff
 - COAST MOUNTAIN INTRUSIVES
 - KTg GRANITE, granodiorite, quartz monzonite
 - LOWER JURASSIC
 - LABERGE GROUP
 - JL graywacke, siltstone, argillite, conglomerate, limestone
 - PENNSYLVANIAN TO TRIASSIC
 - LEWES RIVER GROUP
 - TJTs argillite
 - TJTW graywacke and tuff
 - PROTEROZOIC
 - YUKON GROUP
 - PP quartz chlorite gneiss schist

SYMBOLS

- Geological contact: defined, approximate, assumed
- Fault
- Prospecting Traverse:
 - B. Lueck - T. Peever
 - J. Sults
 - C. Davidson
- Rock sample site, sample number
- Adit
- Camp



SAMPLE NUMBER	Au (ppb)	Ag (ppm)
34514	500	< 0.5
34515	860	22.4
34516	>10000	>50
34517	40	1.2
34518	2900	0.6
34519	6000	>50
34520	800	5.6
34521	780	0.1
34522	>10000	>50
34523	5400	>50
34524	4300	>50
34525	2100	48.2

SAMPLE NUMBER	Au (ppb)	Ag (ppm)
17895	5900	>50

SAMPLE NUMBER	Au (ppb)	Ag (ppm)
17891	30	>50
17892	55	>50
17893	85	29.6
17894	35	6.1
34514	500	0.5
34515	860	22.4

SAMPLE NUMBER	Au (ppb)	Ag (ppm)
34501	300	7.1
34502	10	4.4
34503	130	2.1
34504	780	7.4
34505	75	1.1
34506	10	2.8
34507	400	6.1
34508	1050	0
34509	45	0.9
34510	5	1.2
34511	75	7.0
34512	>10000	11
34513	520	0.6

5TH GEOLOGICAL BRANCH ASSESSMENT REPORT

16,569

LODE STAR EXPLORATION INC.

PAVEY PROPERTY
 PROSPECTING & SAMPLE PLAN
 PRELIMINARY GEOLOGY

BENNETT LAKE AREA, BRITISH COLUMBIA

NTS: 104 M-15W	TECHNICIAN: G.D.	DATE: OCT. 1987
SCALE: 1:10 000	DRAFTING: M/TECHNICALS LTD.	FIGURE: 6